lightsources.org

Presentation to National User Facility Administrators

March 8, 2005

The current problem with light sources

Many light sources worldwide

Users from thousands of institutions (> 3,500 institutions at last count)

User institutions are often the source of news

Diverse science not unique to light sources

Light source connection to news is often diluted or lost

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Our Solution: Worldwide Collaboration

A few years, a group of light source communicators began to discuss how to promote greater public understanding of the role of light sources (synchrotrons and free electron lasers) in broad fields including science, technology, and medicine.

This resulted in:

- Formation of an international consortium of light source communicators.
- Establishment of a light-sources information web site, lightsources.org.

Motivation for Collaboration

- Synchrotron light sources today constitute a multibillion dollar enterprise worldwide with about 50 operating facilities in more than 20 countries.
- These facilities require substantial financial support to keep operating (in the order of 10 % of initial investment per facility per year).
- It is important that these facilities are supported by funding agencies, the scientific community, and the general public.
- Increasing the visibility of the facilities and raising public awareness of the benefits that derive from the basic science and research conducted at the light sources is important.

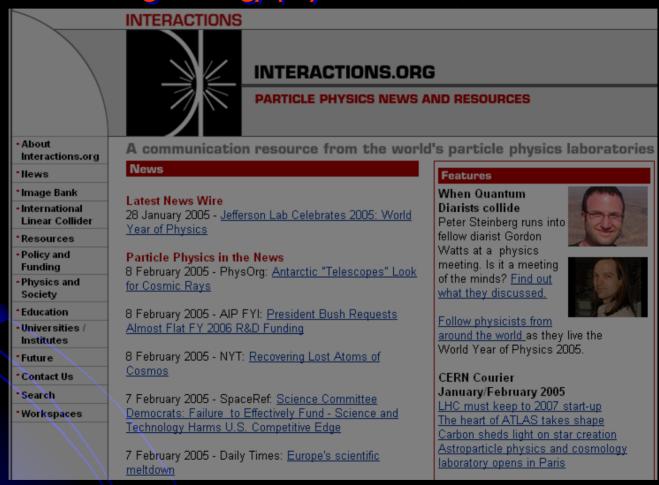
History of lightsources.org

- Fall 2001: First conference call: CLS, SRS, AUS, ESRF, ALS
- April 2003: DOE Communicators meeting at APS
- August 2003: International Communicators meeting during SRI2003
- August 26, 2003: Neil Calder presents first proposal for collaborative web-site to SRI International Advisory Committee (Facility Directors). A detailed proposal is requested.
- November 19-20, 2003: Meeting at the APS. "THE PLAN" is formulated, a name is picked: "lightsources.org".
- May 6, 2004: Light Source Communicators meeting at the APS to choose web-master. Also selection of a logo.
- Summer 2004: Financial contributions are solicited in an e-mail cosigned by J. Murray Gibson and William G. Stirling.
- Fall 2004: Design of web site, monthly conference calls.
- February 2005: lightsources.org goes live press release and announcement at AAAS meeting!



Our inspiration: The elder sibling

Web site is the centerpiece of our communications strategy, based on high energy physics model, Interactions.org



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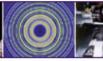




lightsources.org











News, information, and educational materials about the world's light source facilities

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Latest Press Release

January 31, 2005

Spectroscopy for the Real World

New system used to analyze environmental, biological phenomena in their natural state

... A team of scientists used a first-of-its-kind spectroscopy system at the U.S. Department of Energy's Advanced Light Source (ALS) at Lawrence Berkeley National Laboratory to obtain the first direct observations of negatively charged ions accumulating on the surfaces of salt solutions. ...

News

February 8, 2005 - News Medical

Project ma

A project to working in th grant of 10 r

February 4, 1 **Biochemist** ...The Synch

368-meter-lo second as th approximate

February 4. nanotechno ...The initial high vacuum in Grenoble,

Science Highlights SPring-8: ... Is a room-

temperature superconductor possible?

ELETTRA, 13 Managing **Facility**

Coordinating Synchrotron and FEL Science

"Field of Beams"

Lightsources.org serves as a tool for establishing effective communication about and among the world's light sources. Updated daily, this site serves as a clearing house for light source related news, educational material, and user-related information. It provides links to current light source news, high-resolution graphics from light Polish rese sources around the world, links to education and outreach programs, information on meetings, and facility related information for lightsource users.

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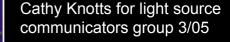






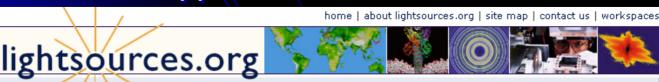






The Plan for Users and Facilities

- INITIALLY, LINKS TO LIGHT SOURCE WEB SITES
- LONG TERM
 - Mechanism for easy access to information about all aspects of being a light source user
 - * Allow prospective user to determine which light sources are of interest and direct the user to those facilities
 - Possibly central posting of proposal deadlines, schedules
- FACILITY NEWS
 - Central calendar of meetings and events
 - Technical developments at the light sources
 - Organizational changes at the light sources
 - Job opportunities



Information & Links to Facilities World-Wide

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Facility Information

North America

- Advanced Light Source (ALS), USA
- Advanced Photon Source (APS), USA
- · Center for Advanced Microstructures & Devices (CAMD), USA
- Cornell High Energy Synchrotron Source (CHESS), USA
- Canadian Light Source (CLS), Canada
- Duke Free Electron Laser Laboratory (DFELL), USA
- · Jefferson Lab (JLab), USA
- National Synchrotron Light Source (NSLS), USA
- Synchrotron Radiation Center (SRC), USA
- Stanford Synchrotron Radiation Laboratory (SSRL), USA
- Synchrotron Ultraviolet Radiation Facility (SURF-II / SURF-III)

South America

• Laboratorio Nacional de Luz Sincrotron (LNLS), Brazil

Europe

- ALBA Synchrotron Light Facility, Spain
- ANKA Institute for Synchrotron Radiation (ISS), Germany
- Berliner Elektronenspeicherring-Gesellschaft für Synchrotron St
- DAΦNE Light, Italy
- Dortmund Electron Test Accelerator (DELTA), Germany

Stanford Synchrotron Radiation Laboratory (SSRL)

Stanford Linear Accelerator Center (SLAC)

- http://www-ssrl.slac.stanford.edu
- Address

Stanford Linear Accelerator Center 2575 Sand Hill Road Menlo Park, CA 94025 USA

Media Contact

Neil Calder
Director of the Office for Communications
Stanford Linear Accelerator Center
2575 Sand Hill Road, MS 58
Menlo Park, CA 94025
USA

Tel: (650) 926-8707 Fax: (650) 926-8705

Email: neil.calder@slac.stanford.edu

News

What's New Science Highlights

- Getting Beamtime
- General User Proposals
- Forms
- · Operations Schedule
- Experimental Facilities and SPEAR Experimental Facilities
- · User Services Office

User Research and scheduling at SSRL: Cathy Knotts User Research Administration Manager Tel: (650) 926-3191

Fax: (650) 926-3191

Email: knotts@ssrl.slac.stanford.edu

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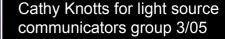














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tunnel





more information : hi-res image







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2005 February

- February 4, 2005 Technician Biochemist bounces electrons to fight can > Today's Digest
- · February 4, 2005 Cordis News Polish researcher heads ground-breaking
- February 4, 2005 Barcelona Field Studie. Barcelona's Synchrotron
- February 4, 2005 Europa European teams join forces to create new
- February 3, 2005 Science Daily Structure Of A Conserved RNA Element I
- February 3, 2005 Chemie.De Spectroscopy for the Real World
- February 2, 2005 SRS News Watching Liquid Alumina Solidify from 300
- February 1, 2005 Spacedaily Spectroscopy for the Real World
- February 1, 2005 Chemical Online New System Used To Analyze Environmen
- February 1, 2005 PhysOrg.com Floating Films on Liquid Mercury

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- > Matter & Energy
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- > Fossils & Ruins

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Date: 2005-02-03

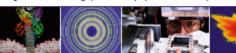


Structure Of A Conserved RNA Element In The SARS Virus Genome Determined

In February 2003, the first (and so far only) epidemic of severe acute respiratory syndrome (SARS) started in Guangdong Province, China, A respiratory illness that begins with a high temperature and can develop into life-threatening pneumonia, SARS is spread by close person-toperson contact. Before the end of the month, a Guangdong doctor had inadvertently taken the infection to Hong Kong. A woman staying in the same Hong Kong hotel as the doctor then carried the disease to Toronto, In March, the World Health Organization issued a global alert and warned against unnecessary travel to affected areas. Because of these and other containment efforts, 8,098 people became ill with SARS, rather than the predicted millions; 774 people died. The last case of the epidemic was reported in Taiwan in June 2003, and since then

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Advanced Light Source (ALS)

Advanced Photon Source (APS)

ELETTRA Synchrotron Light Laboratory

 ELSA ELSA Synchrotron Radiation Group

ESRF

 HASYLAB - Deutsches Elektronen-Sync HASYLAB Annual Report PETRA III technical Design Report XFEL Technical Design Report Technical Design Report, Supplement

Institute for Storage Ring Facilities (ISA

Jefferson Lab

Laboratório Nacional de Luz Síncrotron

MAX-Lab

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Crystallography

Software:

Scientific Communities

Databases

Publishers

Journals:

Reference Resources

Online Catalogs

Resources

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- Software
- Scientific Communities
- Databases
- Journals
- Reference Resources
- Publishers
- Online Catalogs

National Synchrotron Light Source (NSLS)

National Synchrotron Research Center (NSRC)- Siam Photon Laboratory (SPL)

National Synchrotron Radiation Research Center (NSRRC)

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Facilities Education

Photos/Online Tours

For Students

For Educators

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Meetinas

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Educational Material

This page is devoted to providing the general understanding of lightsources, how they work

- What is a Light Source? Basic information to get started on light
- Facilities Education Pages Education pages provided by lightsource
- Photos/Online Tours Visit lightsources facilities all over the w
- For Students Graphics, illustrations, tutorials to comp
- For Educators Education materials that teachers can u science behind how a light source work

What is a synchrotron?

A supermicroscope

The thirst for knowledge drives us to explore the world around us. What is our planet made of? What are the processes that sustain life? How can we explain the properties of matter and develop new materials? Will it one day be possible to conquer viruses, predict natural catastrophes or eliminate pollution?



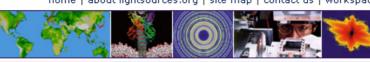
Most of these questions cannot be answered without a profound knowledge of the intimate details of the structure of matter. To help in this quest, scientists have developed ever more powerful instruments capable of resolving the structure of matter down to the level o atoms and molecules.

Synchrotron radiation sources, which can be compared to "supermicroscopes", reveal invaluable information in numerous fields of research. There are about 50 synchrotrons in the world being used by an ever growing number of scientists.

*Possibility of developing specific educational materials (\$£¥€)

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The Audiences

- * YOU!
- Users facility administrators, user outreach and communicators
- Users and user institutions
- Policymakers, funding agencies, their staff
- Science press and other media
- Students and educators
- Broader scientific community
- Science-interested public

The Plan To Distribute News

- * NEWSWIRE
 - Email distribution to subscribers

Subscribe to News Flash

- FACILITY PRESS RELEASES
 - Submitted by members of collaboration
- USER INSTITUTION PRESS RELEASES
 - Mechanism for filtering from website developer
- LIGHT SOURCE NEWS FROM ELSEWHERE
 - From webmaster and members of collaboration

Who is sponsoring this effort?

- Advanced Light Source (ALS), USA
- Advanced Photon Source (APS), USA
- Canadian Light Source (CLS), Canada
- lettra, Italy
- SRF, France
- HASYLAB, Germany
- Jefferson Lab (JLab), USA
- National Synchrotron Light Source (NSLS), USA
- National Synchrotron Radiation Research Center (NSRRC), Taiwan
- ohang Accelerator Laboratory (PAL), S. Korea
- Photon Factory (PF), Japan
- Swiss Light Source (SLS), Switzerland
- Super Photon Ring-8GeV (SPring-8), Japan
- Synchrotron Radiation Center (SRC), USA
- Stanford Synchrotron Radiation Laboratory (SSRL), USA
- Synchrotron Ultraviolet Radiation Facility (SURF-II / SURF-III), USA









































The Organization Plan

Light Source Communicators Group (LSCG)

Any accelerator-based light source in the world can be represented.

lightsource.org Management Group (LSMG)

Members of the Light Source Communicators Group who contribute financially to lightsources.org become voting members.

lightsource.org Editorial Board (LSEB)

Seven members of the lightsource.org Management Group are drawn on a rotating basis to oversee operations.

Who is doing the work?

Designer / Developer: XENO media

- Create core website
- Present overall design concept
- Implement technical solutions
- Arrange for webserver hosting
- Train webmaster *



Xeno Media, Inc. 19 E. First St., Suite A. Hinsdale, IL 60521 630/794-9560 www.xenomedia.com

Proposal for consulting, design, XenoCMS implementation and customization for Lightsources.org

Presented to:

Lightsources.org Management Group

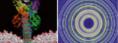
Webmaster: Amaya Muñoz

- She has worked in Europe, Japan, United States
- International background is important!
- Role
 - Coordinate with editorial board and website development company
 - Gather content
 - Day-to-day operation
 - Communicate with light sources



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Spread the Word About This Centralized and Shared Resource

- * Check out www.lightsources.org
- Talk to your light source communicators group member or contact the webmaster by e-mail: info@lightsources.org
 - * ALRobinson@lbl.gov; EJMoxon@lbl.gov; fenner@aps.anl.gov; nova@aps.anl.gov; Sandra.Ribeiro@lightsource.ca; kathryn.warden@usask.ca; bertolo@elettra.trieste.it; freund@esrf.fr; cornuejols@esrf.fr; petra.folkerts@desy.de; wiebke.laasch@desy.de; ware@jlab.org; chsu@nsrrc.org.tw; dianalin@nsrrc.org.tw; lmiller@bnl.gov; giordano@bnl.gov; noriko.usami@kek.jp; youhei.morita@kek.jp; isko@postech.ac.kr; heinz-josef.weyer@psi.ch; cmoore@src.wisc.edu; Calder, Neil; Knotts, Cathy; uwe.arp@nist.gov; webmaster@lightsources.org; munday@xenomedia.com
 - If your facility is not represented, please contact your management